CONSTRUCTION CHEMICALS

Hydrathane

WATER-BASED POLYURETHANE WATERPROOFING MEMBRANE

PACKAGING

MIXING

APPLICATION

USES

SUBSTRATES

CONCRETE
BUILDING BOARDS
BRICK BLOCK
RENDER
CEMENT SHEET
FLOORING

DESCRIPTION

A one-part water-based polyurethane waterproofing membrane which is flexible, tough and fast curing (capable of drying in 6-12 hours @ 23°C 50% relative humidity). The cured membrane will remain tough, elastic and can bridge and seal hairline cracks.

USES

A waterproofing membrane for INTERNAL WET AREAS eg bathrooms, showers, laundries, tiled or screeded ROOF TOPS, BALCONIES and BELOW GROUND applications eg. Retaining walls and planter boxes (subject to protection from damage and adequately drained) on concrete, render, screeds and approved wet area floor and wall building boards. i.e compressed cement sheet, fibre cement sheeting and wet area plasterboard.

FEATURES

- A tough elastic membrane
- UV stable
- Suitable for maintenance foot traffic
- Compatible with Construction Chemicals ceramic tile adhesives
- Does not stain tile grout or marble
- Fast drying trafficable after 6-12 hours

COVERAGE (Approximate)

Floors – Apply two wet coats 0.8mm (800µm) to the floor and 100mm up the surrounding walls to obtain a 1mm (1000µm) dry film thickness. A 15lt pail covers 10m^2.

Walls – Apply two wet coats (0.5mm (500µm) to obtain a 0.6mm (600µm) dry film thickness. A 15lt pail covers 15m^2.

PERFORMANCE DATA

Conforms to AS/NZS 4858 Class 3 membrane

Tensil Strength (Mpa) AS/NZS 4858	2.20Mpa
Elongation (%)	468%
Modified CSIRO Moving Joint Test	pass

SPECIFICATION

The waterproofing membrane shall be a one-part water-based polyurethane compound with a tensile strength of 2.2Mpa and 468% elongation such as HYDRATHANE, manufactured by Construction Chemicals and shall be applied in accordance with AS3740 and AS4654.2, local building codes, the manufacturer's instruction and good trade practice.

SURFACE PREPARATION

The surface to be waterproofed must be structurally sound and free from dirt, dust, grease, paint, wax, laitance and all other contaminants. Protrusions that can puncture the membrane must be ground flat. Holes and voids shall be filled with PATCH & ANCHOR. Building boards must be installed in accordance with the manufacturer's instructions and local building codes. Cracks and junctions in building surfaces shall have a bond breaker tape or silicone applied evenly over the junction or crack prior to the membrane application (to accommodate extremes of movement). New concrete should be wood float finished and allowed to cure for 28 days. Steel float finished concrete, renders and screeds, must be mechanically abraded to remove laitance. Old concrete must be cleaned with a strong detergent/degreaser to remove contaminants then thoroughly washed and allowed to dry. All porous substrates, cement sheet and gypsum board must be primed with PRIMEBOND to prevent excessive moisture draw from the membrane. Metal surfaces, nail and screwheads, must be free of rust and primed with a rust inhibiting primer. All waterproofed floors, roof and balconies shall be sloped to a drain outlet in conformity with AS3740 Revised 2004 Edition and external AS4654.2 - 2009 and relevant local building codes. As a guide a 1:60 fall for wet areas and 1:100 fall for roofs and balconies.

BOND BREAKER AND REOMAT APPLICATION

At the junction/joints in building surfaces ie floors/walls/walls, wastes etc apply 50mm BOND BREAKER TAPE or a 13mm bead of neutral cure silicone centrally over the junction, then apply a thick coat of HYDRATHANE and bed in the 140mm wide REOMAT into the wet membrane.

MEMBRANE APPLICATION

Apply the membrane in accordance with AS3740 and AS4654.2 and local building codes and good trade practice.
Prime concrete and building boards with PRIMEBOND. Apply two coats of HYDRATHANE with a brush or roller. Apply thickly allowing it to flow rather than brush to achieved required thickness. Apply the second coat at 90° to the first (Recoat time is approximately 2 hours at 23°C @ 50% relative humidity) on floors and 100mm up surrounding walls apply two wet coats 0.8mm thick and on walls two wet coats 0.6mm thick. Apply the membrane down the front edge of balconies to the drip mould and down into drains and outlets and remove excess material. Apply a third coat if necessary to obtain the required thickness in critical areas i.e. over the bond breaking tape, over cracks and building junctions.

CURING

7 days at 23°C @ 50% relative humidity.
Colder temperatures will increase cure time.

POND TEST

If a ponding test is required, ensure the membrane is allowed to cure for a minimum of 7 days before pond testing.

TILING

Apply tiling directly to the cured membrane with MONOFLEX, GRIPFLEX or KEMFLEX 2:1.
Tiling can commence after 24hrs at 23°C @ 50% relative humidity, longer in cooler conditions.

SHELF LIFE

12 months in an unopened can, stored in a dry place at 22°C.

PRECAUTIONS

- HYDRATHANE is UV resistant and will withstand maintenance foot traffic. It is advisable to screed, tile or protect with DECKGRIP when traffic is more regular.
- Do not apply if temperature exceeds 35°C or less than 5°C.
- At above 30°C temperatures the membrane exhibits thermoplastic characteristics.
- Do not apply if rain is expected within 3 days.
- Do not thin liquid.
- Do not use in permenantly immersed application (swimming pools etc).
- Do not use on surfaces subject to rising damp or negative hydrostatic pressure.
- Seal damp substrates with one coat of EPECRETE.
- Waterproofed areas must be sloped to a drain and water must not pond.

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